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APPLICATION NO.	FILING DATE	FIRST NAMED INVEN	TOR		ATTORNEY DOCKET NO.
09/204,102	12/01/98	HOUH .		}-	NBX-007-6611
-		LM01/0328	7 [EXAMINER
JOHN JAMES MCGLEW				HARPER	R. K
MCGLEW AND				ART UNIT	PAPER NUMBER
	ROUGH STATIO 4 NY 10510-0			2735	Q
				DATE MAILED:	03/28/00

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary

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Application No. 09/204,102

Applicant(s)

Houh et al.

Examiner

Kevin C.Harper

Group Art Unit 2735

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Responsive to communication(s) filed on Dec 1, 1998	·				
☐ This action is FINAL .					
Since this application is in condition for allowance except for in accordance with the practice under <i>Ex parte Quayle</i> , 1935					
A shortened statutory period for response to this action is set to is longer, from the mailing date of this communication. Failure to application to become abandoned. (35 U.S.C. § 133). Extensio 37 CFR 1.136(a).	o respond within the period for response will cause the				
Disposition of Claims					
	is/are pending in the application.				
Of the above, claim(s)	is/are withdrawn from consideration.				
☐ Claim(s)	is/are allowed.				
	is/are rejected.				
Claim(s)	is/are objected to.				
☐ Claims are subject to restriction or election requirement					
Application Papers X See the attached Notice of Draftsperson's Patent Drawing The drawing(s) filed on is/are objected The proposed drawing correction, filed on	ed to by the Examiner.				
☐ The specification is objected to by the Examiner. ☐ The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. § 119 Acknowledgement is made of a claim for foreign priority used and a claim for domestic priority used and a claim for domestic priority. Acknowledgement is made of a claim for domestic priority.	the priority documents have been nber) International Bureau (PCT Rule 17.2(a)).				
Attachment(s) Notice of References Cited, PTO-892 Information Disclosure Statement(s), PTO-1449, Paper No Interview Summary, PTO-413 Notice of Draftsperson's Patent Drawing Review, PTO-949 Notice of Informal Patent Application, PTO-152	-				
SEE OFFICE ACTION ON TI	HE FOLLOWING PAGES				

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Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-11 and 13 are rejected under 35 U.S.C. 102(b) as being anticipated by Markkula, Jr. et al. (US 4,918,690).

- 1. Regarding claims 1-2 and 5-6, Markkula discloses a method for forwarding packets to a network (abstract, lines 1-2) comprising the steps of attempting to forward a packet stored in memory (Figure 12) to the network (col. 71, lines 60-61; note: one skilled in the art recognizes that in connection-oriented communication using an ARQ protocol, the next packet to be sent is stored until an acknowledgment is received for the preceding packet), establishing a time limit within which to forward the packet stored in the memory to the network (col. 71, lines 61-62), monitoring an elapsed period of time while attempting to forward the packet stored in memory to the network (col. 71, lines 61-62), and determining whether to cancel attempt to forward the packet stored in the memory when the elapsed period of time has expired (col. 71, lines 63-64; note: the previous packet is transmitted again and the timer is reset, instead of the current packet being transmitted when the timer expires).
- 2. Regarding claim 3, if the previous packet is successfully transmitted then the current packet may be transmitted without interruption (col. 77, lines 8-10).

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3. Regarding claim 4, a transmitted message can be interrupted while it is being transmitted (col. 77, lines 8-10).

- 4. Regarding claim 7, if the previous packet is successfully transmitted and the current packet needs to be retransmitted, then a retransmission bit is changed to designate the packet as a retransmission (col. 72, lines 35-38).
- 5. Regarding claims 8, 11 and 13, because each packet should arrive in order, the data is time sensitive (col. 14, lines 33-35). If the previous packet is successfully transmitted and the current packet needs to be retransmitted, the protocol related data only (Figure 6, contention timer) is changed (col. 14, lines 24-26).
- 6. Regarding claims 9 and 10, if the previous packet is successfully transmitted and the current packet does not transmit successfully, an ACK timer will be restarted (col. 14, lines 24-26) and the packet will be transmitted again (col. 71, lines 60-64).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over Markkula, Jr. et al. (US 4,918,690).

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7. Markkula discloses a method of transmitting packets to a network. However, Markkula does not disclose having a new packet with different time-sensitive data and the same protocol-related data as a replaced packet. One skilled in the art would recognize that a selective ARQ protocol allows the retransmission of unacknowledged packets out of sequence. In this case, a replacement packet will be addressed to the same destination but have a different data payload. Therefore, it would have been obvious to one skilled in the art at the time the invention was made to have a selective ARQ in the invention of Markkula because Markkula discloses a method of forwarding packets which determines if a packet should be retransmitted and one skilled in the art would recognize that a selective ARQ protocol would allow the efficient transmission of non-real time data (i.e. not voice or video packets) by allowing succeeding packets to be transmitted without waiting for an acknowledgment for a packet.

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Haartsen (US 6,021,124), Smolinske et al. (US 5,426,643), Diachine et al. (US 5,577,046) disclose methods of using a timer to determine retransmissions. Hluchyj et al. (US 5,268,900) discloses a method for dropping queued speech packets as determined by the fullness of a speech packet queue.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin Harper whose telephone number is (703) 305-0139. The examiner can normally be reached on Monday-Tuesday and Thursday-Friday from 7:30 AM to 6:00 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Horabik, can be reached at (703) 305-4704. The fax phone number for this Group is (703) 305-3988.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-3800.

Kevin C. Harper

March 24, 2000

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